CORRECTED VERSION

(19) World Intellectual Property Organization

International Bureau



A TREATH BUILDIN IN BUILD WENN BUILD BUILD BUILD IN HER BUILD BUIL

(43) International Publication Date 20 January 2005 (20.01.2005)

PCT

(10) International Publication Number WO 2005/005415 A1

- (51) International Patent Classification⁷: C07D 403/04, 409/04, A61K 31/404, A61P 29/00
- (21) International Application Number:

PCT/GB2004/002996

- (22) International Filing Date: 9 July 2004 (09.07.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/485,390 0302035-1 9 July 2003 (09.07.2003) US 9 July 2003 (09.07.2003) SE

- (71) Applicant (for all designated States except US, UZ): BI-OLIPOX AB [SE/SE]; P.O. Box 6280, S-102 34 Stockholm (SE).
- (71) Applicant (for UZ only): MCNEENEY, Stephen, Phillip [GB/GB]; Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): OLOFSSON, Kristofer [SE/SE]; Biolipox AB, P.O. Box 6280, S-102 34 Stockholm (SE). SUNA, Edgars [LV/LV]; Latvian Institute of Organics Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV). PELCMAN, Benjamin [SE/SE]; Biolipox AB, P.O. Box 6280, S-102 34 Stockholm (SE). OZOLA, Vita [LV/LV]; Latvian Institute of Organic Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV). KATKEVICS, Martins [LV/LV]; Latvian Institute of Organic Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV). KALVINS, Ivars [LV/LV]; Latvian Institute of Organic Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV).

- (74) Agent: MCNEENEY, Stephen; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

(48) Date of publication of this corrected version:

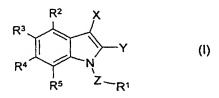
17 March 2005

(15) Information about Correction:

see PCT Gazette No. 11/2005 of 17 March 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INDOLES USEFUL IN THE TREATMENT OF INFLAMMATION



(57) Abstract: There is provided a compound of formula (I), wherein X, Y, Z, R¹, R², R³, R⁴ and R⁵ have meanings given in the description, and pharmaceutically-acceptable salts thereof, which compounds are useful in the treatment of diseases in which inhibition of the activity of microsomal prostaglandin E synthase-1 is desired and/or required, and particularly in the treatment of inflammation.

(19) World Intellectual Property Organization International Bureau



THE REPORT OF TH

(43) International Publication Date 20 January 2005 (20.01.2005)

PCT

(10) International Publication Number WO 2005/005415 A1

(51) International Patent Classification⁷: C07D 403/04, 409/04, A61K 31/404, A61P 29/00

(21) International Application Number:

PCT/GB2004/002996

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/485,390 0302035-1 9 July 2003 (09.07.2003) US 9 July 2003 (09.07.2003) SE

- (71) Applicant (for all designated States except US, UZ): BI-OLIPOX AB [SE/SE]; P.O. Box 6280, S-102 34 Stockholm (SE).
- (71) Applicant (for UZ only): MCNEENEY, Stephen, Phillip [GB/GB]; Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): OLOFSSON, Kristofer [SE/SE]; Biolipox AB, P.O. Box 6280, S-102 34 Stockholm (SE). SUNA, Edgars [LV/LV]; Latvian Institute of Organics Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV). PELCMAN, Benjamin [SE/SE]; Biolipox AB, P.O. Box 6280, S-102 34 Stockholm (SE). OZOLA, Vita [LV/LV]; Latvian Institute of Organic Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV). KATKEVICS, Martins [LV/LV]; Latvian Institute of Organic Synthesis,

21 Aizkraukles Str., LV-1006 Riga (LV). KALVINS, Ivars [LV/LV]; Latvian Institute of Organic Synthesis, 21 Aizkraukles Str., LV-1006 Riga (LV).

- (74) Agent: MCNEENEY, Stephen; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IDOLES USEFUL IN THE TREATMENT OF INFLAMMATION

$$\begin{array}{c|c}
R^2 & X \\
R^3 & Y \\
R^4 & X \\
N \\
Z - R^1
\end{array}$$

2005/005415 A1

(57) Abstract: There is provided a compound of formula (I), wherein X, Y, Z, R¹, R², R³, R⁴ and R⁵ have meanings given in the description, and pharmaceutically-acceptable salts thereof, which compounds are useful in the treatment of diseases in which inhibition of the activity of microsomal prostaglandin E synthase-1 is desired and/or required, and particularly in the treatment of inflammation.